

Product Information

G 7500

**G 7500 MultiSensor
 Water Analysis Instrument**



- **High-ohm BNC input for pH/Redox**
- **2nd input for conductivity or dissolved oxygen measurement**
- **Galvanic isolation of both inputs for simultaneous measurement:**
2 measurement variables can be measured simultaneously!
Unique in this price class!
- **Waterproof**
- **Data logger (access via USB mass storage device)**
- **Micro USB (mass storage device, COM port)**
- **NiMH-AAA batteries, charging via Micro USB**
- **Graphic, multilingual LCD (backlighting: white, red on alarm)**
- **Measurement and diagram display**

Features

The G 7500 is a comfortable multi-channel water analysis device for simultaneous measurement of two measurement variables and the corresponding temperature. All significant electrochemical measurements can be combined:

- pH/ Redox + conductivity/salinity
- pH/ Redox + dissolved oxygen

The backlit graphic display shows all parameters in plain text in German or English; other languages can be integrated (additional charges indicated on request). Large display or measurement diagram can also be represented.

Use of our proven standard plug connectors guarantees that you can use our standard sensors – without additional costs due to complicated technology in the sensors. The device is distinguished by its impressive performance and the affordable system price (refer also to our sets). The state-of-the-art device platform uses the standard USB cable to charge the internal batteries (interchangeable) and read the data logger without the need for additional software or adapters. The logger is read conveniently like a USB 2.0 memory stick.

Therefore, you have applications such as surface water monitoring, neutralisation processes or agricultural measurements ready to hand in a compact format.

Technical data

Input no.1

- pH/ Redox**
- Connection : BNC, waterproof
- Measuring range : -2.00...+16.00 pH
 (± 0.25 % FS @ 25°C)
 or -1500...+1500mV Redox voltage
 (±0.25 % FS @ 25 °C)
- Temperature : -10.0...150.0 °C (Pt1000)
 ±0.25 % FS connection via 4mm banana
 or O₂/LF sensor
- Temperature compens. : Manual, automatic

Input no. 2

- Connection : 7-pole bayonet jack
- Temperature : -10.0...110.0 °C (NTC or Pt1000,
 integrated in O₂ or conductivity sensor)

Conductivity

- Measuring range : 0 µS/cm...500 mS/cm
 (±0.5 % FS @ 25 °C)
 Salinity/PSU: 0.0...70.0 g/kg
 Cell constant 0.3...1.6000 1/cm
- Temperature compens. : Off, linear (0.300...3.000 %/K),
 NLF (according to DIN EN 27888),
 Reference temperature: 20 °C or 25 °C
 (adjustable)

Dissolved oxygen

- Measuring range : Oxygen saturation: 0.0...500.0 % sat
 Oxygen concentration: 0.0...50.0 mg/l
 Oxygen partial pressure: 0...1013 mbar O₂
 (accuracy depending on sensor and
 calibration with flow > 20 cm/s, add.
 ±1.5 % FS @ 25 °C, 100 % sat, O₂)
- Temperature compens. : Automatically via connected sensor
- Pressure compensation : Manual, automatic via int. sensor:
 500..1100 hPa ±4 hPa
- Salinity compensation : Manual PSU 0...70 g/kg

Additional functions

- : Text-base user guidance (DE/EN),
 Charging via USB jack
 (3xAAA batteries integrated,
 exchangeable)

Display

- : LCD (180 x 128 pixel), monochromatic,
 Adjustable backlight

Interface

- : USB 2.0, Micro USB jack

Calibration

- : pH: 1...5 point calibration
 (PHL buffer, DIN buffer)
 LF: Cell constant
 O₂: Water-saturated air

Data logger

- : 8 GB with FAT file system

Alarm

- : Acoustic alerting (horn)
 Visual (red LCD background)

Power supply

- : 3x NiMH AAA (max. 750 mAh)

Current requirement

- : On: approx. 75 mA in operation;
 Off: approx. < 0.1 mA

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Connections



Accessories

O2 sensor:

Oxygen sensor, cable length 2 m	GWO5610-L02	Art.-no. 607386
Oxygen sensor, cable length 4 m	GWO5610-L04	Art.-no. 607764
Spare membrane head	GWOK 02	Art.-no. 608012
Spare electrolyte 100 ml	KOH 100	Art.-no. 603356

LF measuring cell:

4-pole graphite high precision measuring cell, 2 m	LF452-L02-GE	Art.-no. 608773
4-pole graphite economy measuring cell, 2 m	LF400-L02-GE	Art.-no. 602968
Calibration solution, 100 ml 1413 µS/cm	GKL-100	Art.-no. 601396
Calibration solution, 100 ml 50 mS/cm	GKL-102	Art.-no. 601400

pH electrode:

Pressure resistant pH electrode with Pt1000, 2 m	GE117-BNC-L02	Art.-Nr. 600730
Waterproof pH electrode with Pt1000, 2 m	GE135-BNC-L02	Art.-Nr. 483293
250 ml ready-to-use buffer solution pH 4,01	PHL 4	Art.-Nr. 601369
250 ml ready-to-use buffer solution pH 7,00	PHL 7	Art.-Nr. 601371
250 ml ready-to-use buffer solution pH 10,01	PHL 10	Art.-Nr. 601373
100 ml pepsin/HCl cleaning solution	GRL100-GE	Art.-Nr. 601420

- Additional accessories on request or in our catalogue

Scope of delivery

Instrument, manual, test protocol, rechargeable Batteries
 Micro USB / USB-A 1.8 m communication and charging cable
 (without mains adapter)

Ordering code

G7500 (device alone)

G7500 - 1.

1. Set-Option	
-	Device, without sensors
PH135/O2-2	Device, GE135-L02+accessories *, GWO 5610-L02+accessories **, GKK 2021
PH135/CON-2	Device, GE135-L02+accessories *, LF425-L02+accessories, GKK 2021
PH135/CON/O2-2	Device, GE135-L02+accessories *, LF425-L02+accessories, GWO5610-L02+accessories **, GKK 2021

*) incl. in pH sets: PHL 4, PHL 7, PHL 10, KCL3M, GRL 100
 **) incl. In O2 sets: spare-GWOK02, GSKA 3610, KOH, 2 pipettes, Vinyl-gloves

